



Attorney Docket No.: BUZA-013/01US

PATENT

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Mail Stop \_\_\_, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on February 24, 2004.

By: Hanna Hacham 2-24-04  
Hanna Hacham

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Michael D. GALLAGHER, et al.

Serial No.: 10/688,470

Examiner: Not yet assigned

Confirmation No.: 3024

Art Unit: 2681

Filed: October 17, 2003

For: **APPARATUS AND METHOD FOR EXTENDING THE COVERAGE AREA OF A LICENSED WIRELESS COMMUNICATION SYSTEM USING AN UNLICENSED WIRELESS COMMUNICATION SYSTEM**

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

### INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97(b)

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56, Applicant(s) hereby submits the following information in conformance with 37 C.F.R. §§1.97 and 1.98.

- ☐ Pursuant to 37 C.F.R. §1.98, a copy of each document cited in the attached Form PTO/SB/08 is enclosed.
- ☐ No copies of the publications listed on the attached Form PTO/SB/08A are being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial No. \_\_\_ to which the above-identified application claims priority under 35 U.S.C. §120.
- ☒ No copies of any U.S. patents or U.S. patent application publications listed on the attached Form PTO/SB/08A are being provided pursuant to 37 C.F.R. §1.98 because this application was filed after June 30, 2003.

- ☐ Publication(s) \_\_\_ listed on the attached Form PTO/SB/08A were cited in a foreign search or examination report corresponding to \_\_\_ application serial no. and mailed on \_\_\_.
- ☐ Enclosed is a copy of a non-English publication(s) \_\_\_. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).
- ☐ Enclosed is a copy of a non-English publication(s) \_\_\_. English language publication \_\_\_ (copy enclosed) claims priority from this non-English publication.
- ☐ Enclosed is an explanation of non-English publication(s) \_\_\_ for which an English translation is not available.
- ☐ Enclosed is an English translation of non-English publication(s) \_\_\_ cited in the attached Form PTO/SB/08A.
- ☐ Enclosed is a copy of pending patent Application Serial No. \_\_\_.

This Information Disclosure Statement is filed within any one of the following time periods:


- ☐ within three months from the filing date of this national application other than a CPA under 37 C.F.R. § 1.53(d);
- ☐ within three months from the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in this international application;
- ☒ before the mailing date of a first office action on the merits; or
- ☐ before the mailing of a first office action after the filing of a request for continued examination under 37 C.F.R. § 1.114.

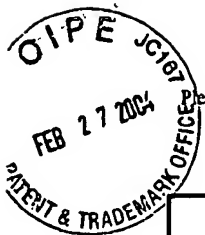
It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08A to the undersigned.

Dated: 2/24/04

Cooley Godward LLP  
 ATTN: Patent Group  
 Five Palo Alto Square  
 3000 El Camino Real  
 Palo Alto, CA 94306-2155  
 Tel: (650) 843-5000  
 Fax: (650) 857-0663  
 EVG\hh

Respectfully submitted,  
 COOLEY GODWARD LLP

By:   
 Edward Van Gieson  
 Reg. No. 44,386



Please type a plus sign (+) inside this box →



PTO/SB/08A (08-00)

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/688,470		
		Filing Date	October 17, 2003		
		First Named Inventor	Gallagher		
		Group Art Unit	2681		
		Examiner Name	Not yet assigned		
Sheet	1	of	2	Attorney Docket Number	BUZA-013/01US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code (if known)		
BJM	P1	US 2002/0082015	A1	Wu	06-27-2002
	P2	US 2001/0031645	A1	Jarrett	10-18-2001
	P3	US 2001/0029186 A1		Canyon et al.	10-11-2001
	P4	5,101,501		Gilhousen	03-31-1992
	P5	5,109,528		Uddenfeldt	04-28-1992
	P6	5,267,261		Blakeney	11-30-1993
	P7	5,367,558		Gillig	11-22-1994
	P8	5,390,233		Jensen	02-14-1995
	P9	5,392,331		Patsiokas	02-21-1995
	P10	5,406,615		Miller	04-11-1995
	P11	5,442,680		Schellinger	08-15-1995
	P12	5,488,649		Schellinger	01-30-1996
	P13	5,507,035		Bantz	04-09-1996
	P14	5,509,052		Chia	04-16-1996
	P15	5,515,420		Urasaka	05-07-1996
	P16	5,594,782		Zicker et al.	01-14-1997
	P17	5,610,969		McHenry	03-11-1997
	P18	5,640,414		Blakeney	06-17-1997
	P19	5,659,598		Byrne	08-19-1997
	P20	5,664,005		Emery	09-02-1997
	P21	5,673,307		Holland	09-30-1997
	P22	5,745,852		Khan	04-28-1998
BJM	P23	5,758,281		Emery	05-26-1998

BJM	P24	5,890,055		Chu	03-30-1999
	P25	5,890,064		Widergen	03-30-1999
	P26	5,903,834		Wallstedt	05-11-1999
	P27	5,915,224		Jonsson	06-22-1999
	P28	5,926,760		Khan	07-20-1999
	P29	5,946,622		Bojeryd	08-31-1999
	P30	6,035,193		Buhmann	03-07-2000
	P31	6,138,019		Trompower	10-24-2000
	P32	6,359,872	B1	Mahany et al.	03-19-2002
↓	P33	6,374,102		Brachman	04-16-2002
BJM	P34	6,389,059	B1	Smith et al.	05-14-2002

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office	Number	Kind Code (if known)		
BJM	F1	WO	97/24004		MCI Communications Corporation	03.07.97

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
BJM	C1	Ericsson Press release: Ericsson presents the Mobile@Home concept, March 21 2001, <a href="http://www.ericsson.com/press/archive/2001Q1/20010321-0048.html">http://www.ericsson.com/press/archive/2001Q1/20010321-0048.html</a> , printed 1/6/2004, pages 1-2		
BJM	C2	Lindholt et al., <u>Mobile@Home - a New Use Case for Bluetooth in the Access Network</u> , ISSLS 2002, 14-18 April 2002, SEOUL, Korea, <a href="http://www.issls-council.org/issls02.htm">http://www.issls-council.org/issls02.htm</a> , printed 12/8/2003		

Examiner Signature		Date Considered	11/29/2005
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Mail Stop \_\_\_\_, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on April 19, 2004.

By: Hanna Hacham 4-19-04  
Hanna Hacham

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of Michael D. GALLAGHER, et al.

Serial No.: 10/688,470

Examiner: Not yet assigned

Confirmation No.: 3024

Art Unit: 2681

Filed: October 17, 2003

For: **APPARATUS AND METHOD FOR EXTENDING THE COVERAGE AREA OF A  
LICENSED WIRELESS COMMUNICATION SYSTEM USING AN UNLICENSED  
WIRELESS COMMUNICATION SYSTEM**

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT TRANSMITTAL**

Enclosed is an Information Disclosure Statement and accompanying Form PTO/SB/08A for the above-identified patent application.

- ☒ In accordance with 37 C.F.R. §1.97(b), no additional fee for submission of the IDS is required.
- ☐ In accordance with 37 C.F.R. §1.97(c), also enclosed is:
  - ☐ the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p); or
  - ☐ a statement as specified in 37 C.F.R. §1.97(e).
- ☐ In accordance with 37 C.F.R. §1.97(d), a statement as specified in 37 C.F.R. §1.97(e) and the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) are also enclosed.
- ☐ Check No. \_\_\_\_ in the amount of \$\_\_\_\_ for the total fee is attached.
- ☒ A return receipt postcard is also enclosed.


[] Please charge \$\_\_\_ to Deposit Account No. 03-3117 for the total fee. This paper is being submitted in duplicate.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 03-3117.

Dated: April 16, 2004

Cooley Godward LLP  
ATTN: Patent Group  
Five Palo Alto Square  
3000 El Camino Real  
Palo Alto, CA 94306-2155  
Tel: (650) 843-5000  
Fax: (650) 857-0663  
EVG\hh

Respectfully submitted,  
**COOLEY GODWARD LLP**

By:   
\_\_\_\_\_  
Edward Van Gieson  
Reg. No. 44,386

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PTO/SB/08A (08-00)

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/688,470		
		Filing Date	October 17, 2003		
		First Named Inventor	Gallagher		
		Group Art Unit	2681		
		Examiner Name	Not yet assigned		
Sheet	1	of	1	Attorney Docket Number	BUZA-013/01 US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code (if known)		
BJM	P35	5,260,988		Schellinger et al.	11-09-1993
BJM	P36	5,675,629		Raffel et al.	10-07-1997
BJM	P37	5,825,759		Liu	10-20-1998
BJM	P38	5,862,345		Okanoue et al.	01-19-1999
BJM	P39	6,680,923	B1	Leon	01-20-2004

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T
		Office	Number	Kind Code (if known)			
BJM	F2	WO	9948312		Nokia Mobile Phones Limited	09-23-1999	
BJM	F3	WO	9948315		Nokia Mobile Phones Limited	09-23-1999	
BJM	F4	EP	0936777	A1	Lucent Technologies, Inc.	08-18-1999	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
BJM	C3	Wu et al., "Intelligent Handoff for Mobile Wireless Internet", Mobile Networks and Applications, 6:67-79 (2001)	

Examiner Signature		Date Considered	11/29/2005
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\*EXAMINER: Initial if reference considered; whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



IFW

Attorney Docket No.: BUZA-013/01US

PATENT

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By: \_\_\_\_\_

*Dolores McKay*  
Dolores McKay

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Michael D. GALLAGHER, et al.

Serial No.: 10/688,470

Examiner: Not yet assigned

Confirmation No.: 3024

Art Unit: 2681

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For: **APPARATUS AND METHOD FOR EXTENDING THE COVERAGE AREA OF A  
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WIRELESS COMMUNICATION SYSTEM**

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Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

### SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Enclosed is an Information Disclosure Statement and accompanying Form PTO/SB/08A for the above-identified patent application.

- ☒ In accordance with 37 C.F.R. §1.97(b), no additional fee for submission of the IDS is required.
- ☐ In accordance with 37 C.F.R. §1.97(c), also enclosed is:
- ☐ the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p); or
  - ☐ a statement as specified in 37 C.F.R. §1.97(e).
- ☐ In accordance with 37 C.F.R. §1.97(d), a statement as specified in 37 C.F.R. §1.97(e) and the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) are also enclosed.
- ☒ A return receipt postcard is also enclosed.



The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 03-3117.

Dated: June 21, 2004

Cooley Godward LLP  
ATTN: Patent Group  
Five Palo Alto Square  
3000 El Camino Real  
Palo Alto, CA 94306-2155  
Tel: (650) 843-5000  
Fax: (650) 857-0663  
EVG\dm

Respectfully submitted,  
COOLEY GODWARD LLP

By:



Edward Van Gieson  
Reg. No. 44,386

- ☒ Publication(s) listed on the attached Form PTO/SB/08A were cited in a foreign search or examination report corresponding to PCT Application Serial No. **PCT/US03/32855** and mailed on April 21, 2004. A copy of the International Search Report is enclosed herewith.
- ☐ Enclosed is a copy of a non-English publication(s) \_\_\_\_\_. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).
- ☐ Enclosed is a copy of a non-English publication(s) \_\_\_\_\_. English language publication \_\_\_\_ (copy enclosed) claims priority from this non-English publication.
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- ☐ within three months from the filing date of this national application other than a CPA under 37 C.F.R. § 1.53(d);
- ☐ within three months from the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in this international application;
- ☒ before the mailing date of a first office action on the merits; or
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It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08A to the undersigned.

Dated: June 21, 2004

Cooley Godward LLP  
 ATTN: Patent Group  
 Five Palo Alto Square  
 3000 El Camino Real  
 Palo Alto, CA 94306-2155  
 Tel: (650) 843-5000  
 Fax: (650) 857-0663  
 EVG\dm

Respectfully submitted,  
 COOLEY GODWARD LLP

By:



Edward Van Gieson  
 Reg. No. 44,386




PTO/SB/08A (08-00)

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/688,470		
		Filing Date	October 17, 2003		
		First Named Inventor	Gallagher		
		Group Art Unit	2681		
		Examiner Name	Not yet assigned		
Sheet	1	of	1	Attorney Docket Number	BUZA-013/01US

U.S. PATENT DOCUMENTS					
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		Number	Kind Code (if known)		
BJM	P40	US 2002/0102974	A1	Raith	08-01-2002
BJM	P41	US 2002/0132630	A1	Arazi et al.	09-19-2002
BJM	P42	US 2002/0147016	A1	Arazi et al.	10-10-2002

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T
		Office	Number	Kind Code (if known)			

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T

Examiner Signature		Date Considered	11/29/2005
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

## Title of Invention

APPARATUS AND METHOD FOR EXTENDING THE  
COVERAGE AREA OF A LICENSED WIRELESS  
COMMUNICATION SYSTEM USING AN UNLICENSED WIRELESS  
COMMUNICATIONS SYSTEM

Application Number : 10/688470



Confirmation Number: 3024

First Named Applicant: Michael Gallagher

Attorney Docket Number: KNT0.P0013

Art Unit: 2681

Examiner: Emmanuel Lionel Moise

Search string: ( 5226045 or 5260944 or 5327578 or 5333175 or 5428601 or 5732076 or 5796727 or 5812522 or 5822681 or 5887020 or 5887260 or 5936949 or 5960364 or 5987010 or 5995828 or 6130886 or 6134227 or 6243581 or 6263211 or 6269086 or 6327470 or 6381457 or 6415158 or 6633761 or 6766160 or 6788656 or 6824048 or 6829227 or 5822767 or 6556825 or 5235632 or 5475677 or 5533027 or 5634193 or 5796729 or 5818820 or 5822681 or 5852767 or 5960341 or 5960361 or 6016318 or 6052592 or 6112080 or 6320873 or 6430395 or 6445921 or 6498934 or 6675009 or 6807417 or 6556830 or 20010046860 or 20020085516 or 20020142761 or 20020147008 or 20020155829 or 20030210199 or 20020166068 or 20040203815 or 20020045459 or 20020160811 or 20020196840 or 20020197984 or 20030043773 or 20030119489 or 20030176181 or 20030202486 or 20040068653 or 20040077346 or 20040077354 or 20040077355 or 20040077356 or 20040147223 or 20040203815 ).pn

## US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
BSM	1	5226045	1993-07-06	Chuang			
	2	5260944	1993-11-09	Tomabechi			
	3	5327578	1992-08-25	Breeden			
	4	5333175	1994-07-26	Ariyavisitakul			
	5	5428601	1995-06-27	Owen			
	6	5732076	1998-03-24	Ketseoglou			
	7	5796727	1998-08-18	Harrison			
	8	5812522	1998-09-22	Lee			
	9	5822681	1996-01-24	Chang			
	10	5887020	1999-03-23	Smith			
✓	11	5887260	1999-03-23	Nakata			
BSM	12	5936949	1999-08-10	Pasternak			

BSM	13	5960364	1999-09-28	Dent			
	14	5987010	1999-11-16	Schnizlein			
	15	5995828	1999-11-30	Nishida			
	16	6130886	2000-10-10	Ketseoglou			
	17	6134227	2000-10-17	Magana			
	18	6243581	2001-06-05	Jawanda			
	19	6263211	2001-07-17	Brunner			
	20	6269086	2001-07-31	Magana			
	21	6327470	2001-12-04	Ostling			
	22	6381457	2002-04-30	Carlsson			
	23	6415158	2001-07-02	King			
	24	6633761	2003-10-14	Singhal			
	25	6766160	2004-04-04	Mohammed			
	26	6788656	2004-09-07	Smolentzov			
	27	6824048	2011-07-05	Itabashi			
	28	6829227	2004-12-07	Pitt			
	29	5822767	1998-12-22	Sugita			
	30	6556825	2003-04-29	Mansfield			
	31	5235632	1993-08-10	Raith			
	32	5475677	1995-12-12	Arnold			
	33	5533027	1996-07-02	Akerberg			
	34	5634193	1997-05-27	Ghisler			
	35	5796729	1999-08-18	Greaney			
	36	5818820	1998-10-06	Anderson			
	37	5822681	1998-10-13	Chang			
	38	5852767	1998-12-22	Kanagawa			
	39	5960341	1999-09-28	LeBlanc			
	40	5960361	1999-09-28	LeBlanc			
	41	6016318	2000-01-18	Tomoike			
	42	6052592	2000-04-18	Schellinger			
	43	6112080	2000-08-29	Anderson			
	44	6320873	2001-11-20	Nevo			
	45	6430395	2002-08-16	Arazi			
	46	6445921	2002-09-03	Bell			
	47	6498934	2002-12-24	Muller			
	48	6675009	2004-01-06	Cook			
	49	6807417	2004-10-19	Sallinen			
BSM	50	6556830	2003-04-29	Lenzo			

## US Published Applications

**Note:** Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
BSM	1	20010046860	2001-11-29	Dong-Youl Lee			
BSM	2	20020085516	2002-07-04	Bridgelall			
BSM	3	20020142761	2002-10-03	Wallstedt			

BTM	4	20020147008	2002-10-10	Kallio			
	5	20020155829	2002-10-24	Proctor			
	6	20030210199	2003-11-13	Sward			
	7	20020166068	2002-11-07	Kilgore			
	8	20040203815	2004-10-14	Shoemake			
	9	20020045459	2002-04-18	Morikawa			
	10	20020160811	2002-10-31	Jannette			
	11	20020196840	2002-12-26	Anderson			
	12	20020197984	2002-12-26	Monin			
	13	20030043773	2003-03-06	Chang			
	14	20030119489	2003-06-26	Mohammed			
	15	20030176181	2003-09-18	Boesjes			
	16	20030202486	2003-10-30	Anton Jr.			
	17	20040068653	2004-04-08	Fascenda			
	18	20040077346	2004-04-22	Krenik			
	19	20040077354	2004-04-22	Leung			
	20	20040077355	2004-04-22	Krenik			
	21	20040077356	2004-04-22	Krenik			
↓	22	20040147223	2004-07-29	Cho			
BTM	23	20040203815	2004-10-14	Shoemake			

Signature

Examiner Name	Date
	11/29/2009



IFW

PATENT  
Docket No. KNT0.P0013

**CERTIFICATE OF MAILING BY "FIRST CLASS MAIL"**

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Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on April 23 2005.

Mani Aden

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the application of:

Michael D. Gallagher

Serial No.: 10/688,470

Filing Date: 11/17/2003

For: APPARATUS AND METHOD FOR  
EXTENDING THE COVERAGE AREA OF A  
LICENSED WIRELESS COMMUNICATION  
SYSTEM USING AN UNLICENSED  
WIRELESS

**INFORMATION DISCLOSURE  
STATEMENT UNDER 37 C.F.R. § 1.97**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicants submit with this Information Disclosure Statement the attached Form PTO-1449, and copies of the documents listed in the 1449 form for consideration by the Examiner. The Examiner is requested to make these documents of record. Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

This Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

This Information Disclosure Statement is submitted within three months of the application filing date or before the mailing date of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, in the unlikely event that the Patent Office determines that additional fees, extension and/or other relief is required, Applicants petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 50-1128 referencing KNT0.P0013. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: 4/24/05

Respectfully submitted,

By: \_\_\_\_\_

Mani Adeli  
Registration No. 39,585

Stattler, Johansen & Adeli LLP  
1875 Century Park East, Suite 1050  
Los Angeles, CA 90067-2570

Phone No. (310) 785-0140 ext. 301  
Fax No. (310) 785-9559



Please type a plus sign (+) inside this box → ☐

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	1	Application Number	10/688,470
				Filing Date	10/17/03
				First Named Inventor	Michael D. Gallagher
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	KNT0.P0013

### FOREIGN PATENT DOCUMENTS

Examiner* Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Office*	Number*	Kind Code (if known)*				
BTM	1.	WO	0028762	A1	11/08/1999			
BTM	2.	WO	9204796		07/15/1991			
BTM	3.	EP	1207708	A1	05/22/2002			
BTM	4.	EP	1207708	B1	10/27/2004			
BTM	5.	GB	2282735	A	04/12/1995			

### NON PATENT LITERATURE DOCUMENTS

Examiner* Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>3</sup>
BTM	6.	Perkins, C.E., "Simplified Routing for Mobile Computers Using TCP/IP," Wireless LAN Implementation, 1992 Proceeding, IEEE Conference on 17-18, Sept., 1992, pages 7-13.	

Examiner Signature		Date Considered	11/29/2005
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number(optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

## Title of Invention

Apparatus and method for extending the coverage area of a  
licensed wireless communication system using an unlicensed  
wireless communication system

Application Number : 10/688470



Confirmation Number: 3024

First Named Applicant: Michael Gallagher

Attorney Docket Number: BUZA-013/01US

Art Unit: 2683

Examiner: Brandon J Miller

Search string: ( 5815525 or 6112088 or 6256511 or 6426819 or 6539237 or 6556822 or 6574266  
or 6587444 or 6633614 or 6647426 or 6658250 or 6665276 or 20010049790 or  
20020191575 or 20030119480 or 20030119490 or 20030119548 or 20030176186  
or 20040192211 ).pn

## US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
BSM	1	5815525	1998-09-29	Smith			
	2	6112088	2000-08-29	Haartsen			
	3	6256511	2001-07-03	Brown			
	4	6426819	2002-07-30	Crimmins			
	5	6539237	2003-03-25	Sayers			
	6	6556822	2003-04-29	Matsumoto			
	7	6574266	2003-06-03	Haartsen			
	8	6587444	2003-07-01	Lenzo			
	9	6633614	2003-10-14	Barton			
	10	6647426	2003-11-11	Mohammed			
	11	6658250	2003-12-02	Ganesan			
BSM	12	6665276	2003-12-16	Culbertson			

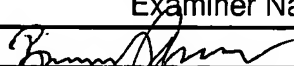
## US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
BSM	1	20010049790	2001-12-06	Faccin			

BSM	2	20020191575	2002-12-19	Kalavade			
	3	20030119480	2003-06-26	Mohammed			
	4	20030119490	2003-06-26	Mohammed			
	5	20030119548	2003-06-26	Mohammed			
J	6	20030176186	2003-09-18	Mohammed			
BSM	7	20040192211	2004-09-30	Gallagher			

**Signature**

Examiner Name	Date
	11/29/2005



IFW

PATENT  
Docket No. BUZA-013/01US

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Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on September 15, 2005.

*Ali Makoui*  
Ali Makoui

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the application of:

Michael Gallagher

Serial No.: 10/688,470

Filing Date: 10/17/2003

For: APPARATUS AND METHOD FOR  
EXTENDING THE COVERAGE AREA  
OF A LICENSED WIRELESS  
COMMUNICATION SYSTEM USING AN  
UNLICENSED WIRELESS  
COMMUNICATION SYSTEM

Examiner: Brandon J. Miller

Group Art Unit: 2683

**INFORMATION DISCLOSURE  
STATEMENT UNDER 37 C.F.R. § 1.97**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

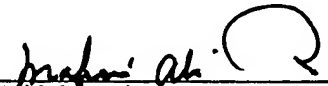
Pursuant to 37 C.F.R. § 1.97 and § 1.98, applicants submit with this Information Disclosure Statement the attached Form PTO-1449, and copies of the documents listed in the 1449 form for consideration by the Examiner. The Examiner is requested to make these documents of record. Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

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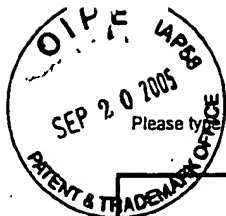
Dated: September 15, 2005

Respectfully submitted,

By:   
Ali Makoui  
Registration No. 45,536

Stattler, Johansen & Adeli LLP  
1875 Century Park East, Suite 1050

Phone No. (310) 785-0140 ext. 302  
Fax No. (310) 785-9558



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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Application Number</b>	10/688,470
				<b>Filing Date</b>	10/17/2003
				<b>First Named Inventor</b>	Michael Gallagher
				<b>Group Art Unit</b>	2683
				<b>Examiner Name</b>	Miller, Brandon J.
<b>Sheet</b>	1	of	1	<b>Attorney Docket Number</b>	BUZA-013/01US

U.S. PATENT DOCUMENTS						
Examiner* Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
Bjm	1.	10/116,023		Mohammed	--	Attorney Docket No. BUZA-007/01US: No publication date yet

<b>Examiner Signature</b>		<b>Date Considered</b>	11/29/2005
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



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Ali Makoui

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the application of:

Michael Gallagher

Serial No.: 10/688,470

Filing Date: 10/17/2003

For: APPARATUS AND METHOD FOR  
EXTENDING THE COVERAGE AREA  
OF A LICENSED WIRELESS  
COMMUNICATION SYSTEM USING  
AN UNLICENSED WIRELESS  
COMMUNICATION SYSTEM

Examiner: Brandon J. Miller

Group Art Unit: 2683

**TRANSMITTAL LETTER FOR INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The following IDS is being submitted for Serial No. 10/688,470. Attached please find:

1. Information Disclosure Statement;
2. Form PTO-1449;
3. (6) Cited References; and
4. A Return Receipt Post Card

The fee has been calculated as follows:

FOR	NUMBER	NUMBER OVER ALLOTMENT	RATE	CALCULATIONS
Information Disclosure Statement under C.F.R. § 1.97(b)	0	0	\$0	\$0
Fees for an IDS under C.F.R. § 1.97(c) or (d)	0	0	\$0.00	\$0.00
Total from Above				\$0.00
Reduction by 1/2 for filing by small entity (Note 37 C.F.R. §§ 1.9, 1.27, 1.28). The Applicant hereby states that it qualifies as a small entity under 37 CFR 1.27				\$0.00
				<b>TOTAL = \$0.00</b>

The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. §§ 1.16 and 1.17 that may be required by this transmittal and associated documents, or to credit any overpayment to **Deposit Account No. 50-1128**.

Respectfully submitted,

Dated: October 20, 2005

By:

Ali Makoui

Ali Makoui  
Registration No. 45,536

Stattler, Johansen & Adeli LLP,  
1875 Century Park East, Suite 1050  
Century City, California 90067  
Phone: (310) 785-0140, ext. 302  
Fax: (310) 785-9558





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*Ali Makoui*

Ali Makoui

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In the application of:

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COMMUNICATION SYSTEM

Examiner: Brandon J. Miller

Group Art Unit: 2683

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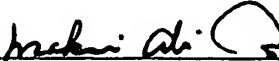
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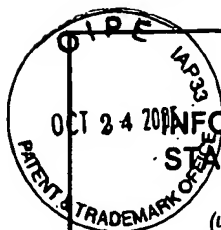
Dated: October 20, 2005

Respectfully submitted,

By: 

Ali Makoui  
Registration No. 45,536

Stattler, Johansen & Adeli LLP  
1875 Century Park, Suite 1050  
Century City, California 90067-2337  
Telephone: (310) 785-0140 x302  
Fax: (310) 785-9558

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number				10/688,470	
Filing Date				10/17/2003	
First Named Inventor				Michael Gallagher	
Group Art Unit				2683	
Examiner Name				Miller, Brandon J.	
Attorney Docket Number				BUZA-013/01US	
Sheet	1	of	2		

## RELATED U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Date of filing MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Related Application Data
		Number	Kind Code <sup>2</sup> (if known)			
BTM	1.	Preliminary Amendment 2003/0119548	A1	04-02-2002	Mohammed	Preliminary Amendment to US 2003/0119548. US Publication 2003/0119548 was submitted electronically on 09/15/2005.
	2.	Preliminary Amendment 2003/0119480	A1	04-02-2002	Mohammed	Preliminary Amendment to US 2003/0119480. US Publication 2003/0119480 was submitted electronically on 09/15/2005.
	3.	Preliminary Amendment 2003/0119490	A1	04-02-2002	Mohammed	Preliminary Amendment to US 2003/0119490. US Publication 2003/0119490 was submitted electronically on 09/15/2005.
	4.	Preliminary Amendment 2003/0176186	A1	04-02-2002	Mohammed	Preliminary Amendment to US 2003/0176186 US Publication 2003/0176186 was submitted electronically on 09/15/2005.
	5.	Preliminary Amendment 2003/0119489	A1	04-02-2002	Mohammed	Preliminary Amendment to US 2003/0119489 US Publication 2003/0119489 was submitted on 04/22/2005.
BTM	6.	Preliminary Amendment 2005/0207395	A1	04-02-2002	Mohammed	Preliminary Amendment to US 2005/0207395 The corresponding application, application no. 10/116,023 was submitted on 09/15/2005. (At the time of 09/15/2005, a publication no. had not yet been assigned.)

## U.S. PATENT DOCUMENTS

Examiner* Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
BTM	7.	6,957,249		Salo, et. al.	01-15-2004	
	8.	2003/0142673	A1	Patil, et. al.	07-31-2003	
	9.	2003/0172264	A1	Dillon	09-11-2003	
	10.	2003/0193952	A1	O'Neill	10-16-2003	
	11.	2003/0219022	A1	Dillon, et. al.	11-27-2003	
	12.	2003/0226017	A1	Palekar, et. al.	12-04-2003	
	13.	2004/0008649	A1	Wybenga, et. al.	01-15-2004	
BTM	14.	2004/0013099	A1	O'Neill	01-22-2004	

Examiner Signature		Date Considered	11/29/2005
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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Application Number</b>	10/688,470
				<b>Filing Date</b>	10/17/2003
				<b>First Named Inventor</b>	Michael Gallagher
				<b>Group Art Unit</b>	2683
				<b>Examiner Name</b>	Miller, Brandon J.
<b>Sheet</b>	2	<b>of</b>	2	<b>Attorney Docket Number</b>	BUZA-013/01US

<b>U.S. PATENT DOCUMENTS</b>					
BJM	15.	2004/0025018	A1	Haas, et. al.	02-05-2004

<b>Examiner Signature</b>		<b>Date Considered</b>	11/29/2005
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